AusIMM THE MINERALS INSTITUTE | AusIMM Graduate Program Guidelines

Geotechnical Engineer

Colour	Level of Activity
	Introductory – needs supervision
	Intermediate – works independently
	Advanced – can instruct others

Code	Type of Training
O	On the job training
E	Formal training – external
I	Formal training – internal

Name:_____ Company: _____ Supervisor(s):_____ Mentor(s):_____

DISCIPLINE - Geotechnical Engineer		year 1				year 2				year 3				year 4				Future Training
		3 mths	3 mths	3 mths	3 mths	3 mths	3 mths	3 mths	3 mths	3 mths	3 mths	3 mths	3 mths	3 mths	3 mths	3 mths	3 mths	
1. Company Induction																		
1.01	Familiarisation	I																
1.02	Site Induction	I																
1.03	Administration	I																
1.04	Organisational Structure	I																
1.05	Policies and Procedures	I																
1.06	Other Aspects of Operations	I																
1.07	Networking	I				O				O								Welcome and mentor others.
2.4 Discipline Specific																		
2.4.1	Health and Safety/ Risk Assessment	O	O	O	O	O	O	O	O	O	O	O	O					Lead investigation. Demonstrate positive safety behaviour.
2.4.02	Mines Rescue	I	O	O	O	I	O	O	O	I	O	O	O					Captain mines rescue.
2.4.03	Field Experience		O	O	O	O												
2.4.04	Geology						I											Incorporate geological requirements in design.
2.4.05	Survey						I											Incorporate survey requirements in design.
2.4.06	Long-Term Planning						I											Input geotechnical aspects into long-term plans.
2.04.7	Scheduling						I											
2.04.8	Environment						I											Incorporate environment require-ments in design/operations.
2.4.09	Software							E				E						Proficient in software.
2.4.10	Back Analysis and Excavation Reconciliations							O	O	O	O	O	O					Do this with little supervision, make recommendations.
2.4.11	Analysis							O	O	O	O	O	O					Do this with little supervision, make recommendations.
2.4.12	Modelling							O	O	O	O	O	O					Proficient in numerical modelling and calibration of models.
2.4.13	Design							O	O	O	O	O	O					Do this with little supervision, make recommendations.
2.4.14	Risk Analysis							O	O	O	O	O	O					Do this with little supervision, make recommendations.
2.4.15	QA/QC							O	O	O	O	O	O					Drive QA/QC initiatives.
2.4.16	Data Interpretation							O	O	O	O	O	O					Make improvements.
2.4.17	Geotechnical Knowledge							O	O	O	O	O	O					Understand innovations, make improvements, be aware of research.
2.4.18	Mentoring						E		E		E		E					Mentor others.
3. Business/Management Skills																		
3.01	Business Awareness					O	O	O	O	O	O	O	O	O	O	O	O	Understand needs of internal customers.
3.02	Project Management					O	O	O	O	O	O	O	O	O	O	O	O	
3.03	Business Improvement					O	O	O	O	O	O	O	O	O	O	O	O	Demonstrate benefit from improvement.
3.04	Capital Projects					O	O	O	O	O	O	O	O	O	O	O	O	Proficient in writing justifications.
3.05	Financial Analysis/Budgeting					O	O	O	O	O	O	O	O	O	O	O	O	Take key role in budget preparation.
3.06	Contractor Management					O	O	O	O	O	O	O	O	O	O	O	O	Contractor Management, claims processing, relationship development and management.
3.07	Reporting					O	O	O	O	O	O	O	O	O	O	O	O	
3.08	Community Relationship Skills																	
4. Personal Development Skills																		
4.01	Career Development	O	O	O	O	O	O	O	O	O	O	O	O					Mentor others.
4.02	Leadership	O	O	O	O			O	O	O	O							Advanced leadership training.
4.03	Communication							O	O	O	O							
5. Statutory Requirements																		
5.01	Sit Statutory Tickets				Regulations I			Shiftboss O										E Mine Manager (depends on state).
6. Further Education																		
6.01	Related Course																	E
7. Continuing Professional Development																		
7.01	Professional Institute involvement																	
7.02	Attend Conferences																	Assist in organising a conference.
7.03	Write/Present Papers					O				O								Write papers.